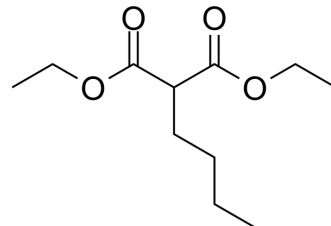


Diethyl butylmalonate

Cat. No.:	HY-44178		
CAS No.:	133-08-4		
Molecular Formula:	C ₁₁ H ₂₀ O ₄		
Molecular Weight:	216.27		
Target:	Bacterial		
Pathway:	Anti-infection		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (462.38 mM; Need ultrasonic)
 H₂O : 1 mg/mL (4.62 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	4.6238 mL	23.1192 mL	46.2385 mL
	5 mM	0.9248 mL	4.6238 mL	9.2477 mL
	10 mM	0.4624 mL	2.3119 mL	4.6238 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (11.56 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (11.56 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (11.56 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Diethyl butylmalonate exhibits toxicity to *T. pyriformis*, with a log(IGC50⁻¹) of 0.557^[1].

REFERENCES

Caution: Product has not been fully validated for medical applications. For research use only.

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